



PTO/SB/08a/b (08-03)

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Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/718,846
(Use as many sheets as necessary)				Filing Date	November 21, 2003
				First Named Inventor	Kaddurah-Daouk, Rima
				Art Unit	1639
				Examiner Name	Not Yet Assigned
Sheet	1	of	8	Attorney Docket Number	AVZ-001CPUSCN

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
ney	A1	5,091,404	02-25-1992	Elgebaly, S.A.	
	A2	5,321,030	06-14-1994	Kaddurah-Daouk, R., et al.	
	A3	5,324,731	06-28-1994	Kaddurah-Daouk, R., et al.	
	A4	5,492,930	02-20-1996	Coffin, V.L.	
	A5	5,741,661	04-21-1998	Goldin, S.M., et al.	
✓	A6	6,169,115	01-02-2001	Kaddurah-Daouk, R., et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
ney	A7	WO 90/09192	08-23-1990	Massachusetts Institute of Technology (US)	
	A8	WO 92/08456	05-29-1992	Amira Inc. (US)	
	A9	WO 94/16687	08-04-1994	University of Pennsylvania (US)	
✓	A10	WO 94/17794 A1	08-18-1994	Jennings, S.A. (GB)	

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ney	A11	Annesley, T., et al., "Cyclocreatine Phosphate as a Substitute for Creatine Phosphate in Vertebrate Tissue. Energetic Considerations," <i>Biochem. Biophys. Res. Commun.</i> , 1977; 74:185-90.			
	A12	Annesley, T., et al., "Formation and Utilization of Novel High Energy Phosphate Reservoirs in Ehrlich Ascites Tumor Cells," <i>J. Biol. Chem.</i> , 1978; 253(22):8120-5.			
✓	A13	Beal, M., "Aging, Energy, and Oxidative Stress in Neurodegenerative Diseases," <i>Ann. Neurol.</i> , 1995; 38:357-66.			

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<i>my</i>	B1	Beal, M., "Does Impairment of Energy Metabolism Result in Excitotoxic Neuronal Death in Neurodegenerative Illnesses?" <i>Ann. Neurol.</i> , 1992; 31:119-30.			
	B2	Beal, M. et al., "Age-Dependent Striatal Excitotoxic Lesions Produced by the Endogenous Mitochondrial Inhibitor Malonate," <i>J. Neurochem.</i> , 1993; 61:1147-50.			
	B3	Bertolini, et al., Chemical Abstracts AN 1982:49622.			
	B4	Brady, S., et al., "Nerve-Specific Enolase and Creatine Phosphokinase in Axonal Transport: Soluble Proteins and the Axoplasmic Matrix," <i>Cell</i> , 1981; 23:515-23.			
	B5	Brouillet, E., et al., "Chronic Mitochondrial Energy Impairment Produces Selective Striatal Degeneration and Abnormal Choreiform Movements in Primates," <i>PNAS</i> , 1995; 92:7105-9.			
	B6	Browne, S., et al., "Oxidative Damage and Metabolic Dysfunction in Huntington's Disease: Selective Vulnerability of the Basal Ganglia," <i>Ann. Neurol.</i> , 1997; 41:646-53.			
	B7	Burbaeva, G.S., et al., "Decreased Level of Immunoreactive Phosphokinase BB Isoenzymes in the Brain of Patients with Schizophrenia and Senile Dementia of the Alzheimer Type," <i>Zh. Nevropatol. Psichiatr Im S S Korsakova</i> , 1990; 90(7):85-7.			
<i>↓</i>	B8	Cadoux-Hudson, T., et al., "Imaging of Human Brain Creatine Kinase Activity in Vivo," <i>FASEB J.</i> , 1989; 3:2660-6.			

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<i>me</i>	C1	Carter, A.J., et al., "Preincubation with creatine enhances levels of creatine phosphate and prevents anoxic damage in rat hippocampal slices," <i>J Neurochem.</i> 1995; 64(6):2691-9.			
<i>1</i>	C2	Chandler, W., et al., "Regional Creatine Kinase, Adenylate Kinase, and Lactate Dehydrogenase in Normal Canine Brain," <i>Stroke</i> , 1988; 19:251-5.			
	C3	Cramer, F., et al., "Die Synthese der Argininphosphorsäure und die Reaktion von Isoureidophosphonaten mit Aminen," <i>Chem. Ber.</i> , 1962; 95:1670-82.			
	C4	De Leon, M., et al., "Identification of Transcriptionally Regulated Genes After Sciatic Nerve Injury," <i>J. Neurosci. Res.</i> , 1991; 29:437-48.			
	C5	Erecinska, M., et al., "ATP and Brain Function," <i>J. Cerebr. Blood Flow and Metabolism</i> , 1989; 9:2-19.			
	C6	Friedhoff, A., et al., "Creatine Kinase Isoenzyme Associated with Synaptosomal Membrane and Synaptic Vesicles," <i>Life Sci.</i> , 1977; 20:867-74.			
	C7	Goodman & Gilman, <i>The Pharmacological Basis of Therapeutics</i> , 1980, 6 th Ed. (MacMillan Pub.); 5-10.			
<i>↓</i>	C8	Griffiths, G., et al., "Accumulation of Analog of Phosphocreatine in Muscle of Chicks Fed 1-Carboxymethyl-2-iminoimidazolidine (Cyclocreatine)," <i>J. Biol. Chem.</i> , 1976; 251(7):2049-54.			

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<i>my</i>	D1	Gu, M., et al., "Mitochondrial Defect in Huntington's Disease Caudate Nucleus," <i>Ann. Neurol.</i> , 1996; 39:385-9.			
	D2	Gurney, M., et al., "Motor Neuron Degeneration in Mice That Express a Human Cu,Zn Superoxide Dismutase Mutation," <i>Science</i> , 1994; 264:1772-5.			
	D3	Hemmer, W., et al., "Functional Aspects of Creatine Kinase in Brain," <i>Dev. Neuroscience</i> , 1993; 15:249-260.			
	D4	Hagenfeldt, L., et al., "Creatine Treatment in MELAS," <i>Muscle and Nerve</i> , 1994; 10:1236-7.			
	D5	Hemmer, W., et al., "Creatine Kinase Isoenzymes in Chicken Cerebellum: Specific Localization of Brain-type Creatine Kinase in Bergmann Glial Cells and Muscle-type Creatine Kinase in Purkinje Neurons," <i>Eur. J. Neuroscience</i> , 1994; 6:538-49.			
	D6	Henshaw, R., et al., "Malonate Produces Striatal Lesions by Indirect NMDA Receptor Activation," <i>Brain Research</i> , 1994; 647:161-6.			
	D7	Hertz, L., et al., "Energy Metabolism at the Cellular Level of the CNS," <i>Can. J. Physiol. Pharmacol.</i> , 1992; 70:S145-57.			
	D8	Ito, M., "The Cellular Basis of Cerebellar Plasticity," <i>Corr. Opin. Neurobiol.</i> , 1991; 1:616-20.			
	D9	Jenkins, B., et al., "Evidence for Impairment of Energy Metabolism in Vivo in Huntington's Disease Using Localized ¹ H NMR Spectroscopy," <i>Neurology</i> , 1993; 43:2689-95.			

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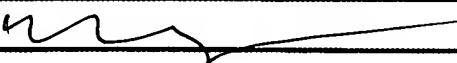
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NY	E1	Kahn, M.A., "Effect of Calcium on Creatine Kinase Activity of Cerebellum," <i>Histochem.</i> , 1976; 48:29-32.			
	E2	Lillie, J., et al., "Cyclocreatine (1-Carboxymethyl-2-iminoimidazolidine) Inhibits Growth of a Broad Spectrum of Cancer Cells Derived from Solid Tumors," <i>Cancer Res.</i> , 1993; 53:3172-8.			
	E3	Lim, L., et al., "Neurone-Specific Enolase and Creatine Phosphokinase are Protein Components of Rat Brain Synaptic Plasma Membranes," <i>J. Neurochem.</i> , 1983; 41:1177-82.			
	E4	LoPresti, P., et al., "Direct Determination of Creatine Kinase Equilibrium Constants with Creatine or Cyclocreatine as Substrate," <i>Biochem. Biophys. Acta.</i> , 1989; 998:317-20.			
	E5	Lowe, G., et al., "Evidence for an Associative Mechanism in the Phosphoryl Transfer Step Catalyzed by Rabbit Muscle Creatine Kinase," <i>J. Biol. Chem.</i> , 1980; 225(9):3944-51.			
	E6	Maker, H., et al., "Regional Changes in Cerebellar Creatine Phosphate Metabolism During Late Maturation," <i>Exp. Neurol.</i> , 1973; 38:295-300.			
	E7	Manos, P., et al., "Creatine Kinase Activity in Postnatal Rat Brain Development and in Cultured Neurons, Astrocytes, and Oligodendrocytes," <i>J. Neurochem.</i> , 1991; 56:2101-7.			
	E8	Marletta, M., et al., "Affinity Labeling of Creatine Kinase by N-(2,3-Epoxypropyl)-N-amidinoglycine," <i>J. Biol. Chem.</i> , 1979; 254(6):1879-86.			
✓	E9	McLaughlin, A., et al., "Specificity of Creatine Kinase for Guanidino Substrates," <i>J. Biol. Chem.</i> , 1972; 247(13):4382-8.			

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<i>mg</i>	F2	National Library of Medicine: IGM Metathesaurus Information Screen - Nervous System Diseases definitions and related terms.			
<i>mg</i>	F3	Newman, E., "Regulation of Potassium Levels by Glial Cells in the Retina," <i>Trends Neuroscience</i> , 1985; 8:156-9.			
	F4	Oblinger, M., et al., "Cytotypic Differences in the Protein Composition of the Axonally Transported Cytoskeleton in Mammalian Neurons," <i>J. Neurol.</i> , 1987; 7(2):453-62.			
	F5	Orlovskaia, D.D., et al., "Neuromorphology and Neurochemistry of Senile Dementias in the Light of Studies on Glial Response," <i>Vestn Ross Akad Med Nauk.</i> , 1992; 8:34-9.			
	F6	Rees, et al., Chemical Abstracts AN 89:82648, US patent 4,981,774.			
	F7	Reichenbach, A., "Glial K+ Permeability and CNS K+ Clearance by Diffusion and Spatial Buffering," <i>Acad. Sci. New York</i> , 1991; 272-86.			
	F8	Roberts, J., et al., "Higher Homolog and N-Ethyl Analog of Creatine as Synthetic Phosphagen Precursors in Brain, Heart, and Muscle, Repressors of Liver Amidinotransferase, and Substrates for Creatine Catabolic Enzymes," <i>J. Biol. Chem.</i> , 1985; 260(25):13502-8.			

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<i>mg</i>	G1	Roberts, J., et al., "Synthesis and Accumulation of an Extremely Stable High-Energy Phosphate Compound by Muscle, Heart, and Brain of Animals Fed the Creatine Analog, 1-Carboxyethyl-2-iminoimidazolidine (Homocyclocreatine)," <i>Arch. Biochem. Biophys.</i> , 1983; 220(2):563-71.			
	G2	Rowley, G.L., et al., "On the Specificity of Creatine Kinase. New Glycocyamines and Glycocyamine Analogs Related to Creatine," <i>Journal of the American Chemical Society</i> , 1971; 93:5542-51.			
	G3	Rudinger, "Peptide Hormones," 1976 (J. Parsons Ed.); 1-6.			
	G4	Schiffmann, R., et al., "Childhood Ataxia with Diffuse Central Nervous System Hypomyelination," <i>Ann. Neurol.</i> , 1994; 35:331-40.			
	G5	Schulthesis, et al., "Effects of Creatine on Synthesis and Release of Gamma-[3H] Aminobutyric Acid," <i>Journal of Neurochemistry</i> , 54(6):1858-63.			
	G6	Schultz, J., et al., "Blockade of Neuronal Nitric Oxide Synthase Protects Against Excitotoxicity in vivo," <i>J. Neurosci.</i> , 1995; 15(12):8419-29.			
	G7	Schultz, J., et al., "Inhibition of Neuronal Nitric Oxide Synthase by 7-Nitroindazole Protects Against MPTP-Induced Neurotoxicity in Mice," <i>J. Neurochem.</i> , 1995; 64:936-9.			

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/718,846
<i>(Use as many sheets as necessary)</i>				Filing Date	November 21, 2003
				First Named Inventor	Kaddurah-Daouk, Rima
				Art Unit	1639
				Examiner Name	Not Yet Assigned
Sheet	8	of	8	Attorney Docket Number	AVZ-001CPUSCN

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<i>Ray</i>	H1	Stadhouders, A., et al., "Mitochondrial Creatine Kinase: A Major Constituent of Pathological Inclusions Seen in Mitochondrial Myopathies," PNAS, 1994; 91(11):5089-93.			
<i>✓</i>	H2	Wang, T., "Synthesis and Properties of N-Acetimidoyl Derivatives of Glycine and Sarcosine," JOC, 1974; 39(24):3591-4.			

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